

Fiber OSP cable, LightScope ZWP® Blown Micro Single Jacket, 144 fiber, All-Dielectric Stranded Loose Tube Arid-Core® Construction, Gel-filled, Singlemode G.652.D and G.657.A1, Feet jacket marking, Black jacket color

- \*Product complies with the Build America, Buy America Act (BABAA) requirements of the Infrastructure Investment and Jobs Act of 2021 (Pub. L. 117- 58, §§ 70901-70953), or is the subject of a waiver approved by the Secretary of Commerce or designee. Compliance requirements and waiver applicability vary based on government funding program. Check the laws and regulations for your specific program.

## Product Classification

<b>Regional Availability</b>	Asia   Australia/New Zealand   EMEA   Latin America   North America
<b>Portfolio</b>	CommScope®
<b>Product Type</b>	Fiber OSP cable
<b>Product Series</b>	B-LN
<b>Government Funding</b>	Build America Buy America (BABA) compliant*

## General Specifications

<b>Cable Type</b>	Stranded loose tube
<b>Construction Type</b>	Non-armored
<b>Subunit Type</b>	Gel-filled
<b>Filler, quantity</b>	0
<b>Jacket Color</b>	Black
<b>Jacket Marking</b>	Feet
<b>Jacket Marking Method</b>	Laser
<b>Jacket Marking Text</b>	COMMSCOPE OPTICAL CABLE OS2 SM 144F (SERIAL NUMBER) MM/YYYY XXXXXXXXFT
<b>Subunit, quantity</b>	12
<b>Fibers per Subunit, quantity</b>	12
<b>Total Fiber Count</b>	144

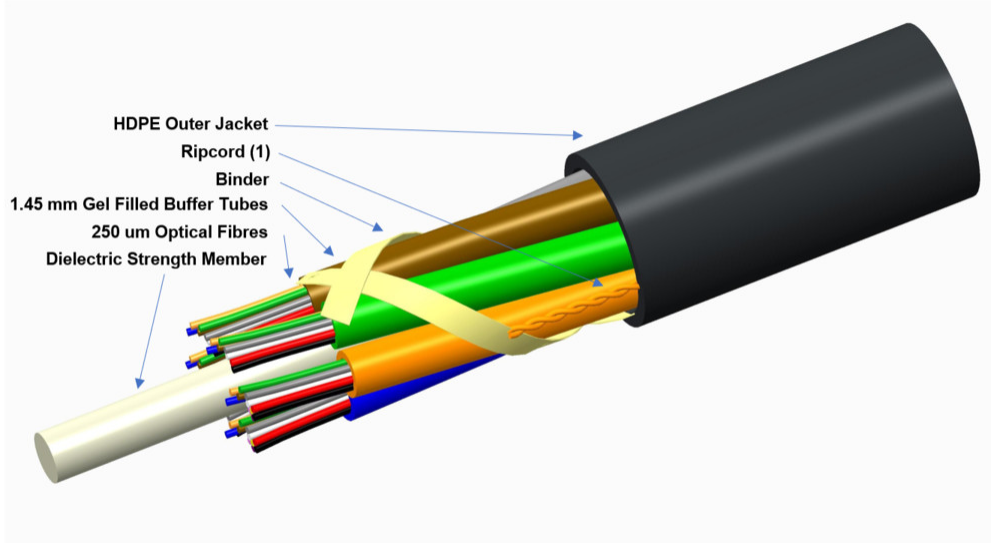
## Dimensions

<b>Buffer Tube/Subunit Diameter</b>	1.45 mm   0.057 in
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**Diameter Over Jacket**

8.4 mm | 0.331 in

## Representative Image



## Material Specifications

**Jacket Material**

High density polyethylene (HDPE)

## Mechanical Specifications

**Minimum Bend Radius, loaded**

348 mm | 13.701 in

**Minimum Bend Radius, unloaded**

110 mm | 4.331 in

**Tensile Load, long term, maximum**

469 N | 105.435 lbf

**Tensile Load, short term, maximum**

1566 N | 352.051 lbf

**Compression**

10 N/mm | 57.101 lb/in

**Compression Test Method**

IEC 60794-1-21 E3

**Flex**

25 cycles

**Flex Test Method**

IEC 60794-1 E6

**Impact**

0.3 N-m | 2.655 in lb

**Impact Test Method**

IEC 60794-1-21 E4

**Strain**

See long and short term tensile loads

**Strain Test Method**

IEC 60794-1-21 E1

**Twist**

10 cycles

**Twist Test Method**

IEC 60794-1-21 E7

# 810009647/DB | B-144-LN-8W-F12NS/15G

**Vertical Rise, maximum** 769 m | 2,522.966 ft

## Optical Specifications

**Fiber Type** G.652.D | G.652.D and G.657.A1

## Environmental Specifications

**Installation temperature** -30 °C to +70 °C (-22 °F to +158 °F)

**Operating Temperature** -30 °C to +70 °C (-22 °F to +158 °F)

**Storage Temperature** -30 °C to +75 °C (-22 °F to +167 °F)

**Cable Qualification Standards** IEC 60794-5-10

**Environmental Space** Air-blown, microduct

**Jacket UV Resistance** UV stabilized

**Water Penetration** 24 h

**Water Penetration Test Method** IEC 60794-1 F4

## Environmental Test Specifications

**Cable Freeze** -2 °C | 28.4 °F

**Cable Freeze Test Method** IEC 60794-1 F15

**Drip** 70 °C | 158 °F

**Drip Test Method** IEC 60794-1-21 E14

**Heat Age** -30 °C to +85 °C (-22 °F to +185 °F)

**Heat Age Test Method** IEC 60794-1-22 F9

**Low High Bend** -30 °C to +60 °C (-22 °F to +140 °F)

**Low High Bend Test Method** IEC 60794-1-21 E11

**Temperature Cycle** -30 °C to +70 °C (-22 °F to +158 °F)

**Temperature Cycle Test Method** IEC 60794-1-22 F1

## Packaging and Weights

**Cable weight** 63 kg/km | 42.334 lb/kft

## Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system

REACH-SVHC	Compliant as per SVHC revision on <a href="http://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a>
ROHS	Compliant
UK-ROHS	Compliant



## Included Products

DB-8W-MICROLT – LightScope ZWP® Singlemode Fiber

## \* Footnotes

**Operating Temperature** Specification applicable to non-terminated bulk fiber cable